











	MOSFETs
	Field Effect Transistor (FET), uses the voltage that is applied
\bigcirc	to their input terminal, called the Gate to control the current
	flowing through them resulting in the output current being
	proportional to the input voltage.
	Field effect transistors
	 – smaller than an equivalent BJT transistor
	 have low power consumption and power dissipation
	lower resistance
	Do not heat up as much
	 High input impedance (when compared to BJT)
	- Sensitive to Electro-Static Discharge (ESD) ATTENTION
\bigcirc	Per available Vicinity and the second s

















































	IGBT
	Insulated-Gate Bipolar Transistor (IGBT)
\bigcirc	Three-terminal power semiconductor device primarily used as
	an electronic switch
	combines high efficiency and fast switching
	Commonly used in variable-frequency drives (VFDs)
	Pulse repetition rates well into the ultrasonic range
	The IGBT combines the simple gate-drive characteristics of
	MOSEE Is with the high-current and low-saturation-voltage
	- The ICBT combines on isolated gets FFT for the control input
	and a bipolar power transistor as a switch in a single device
\cup	tittps//en.wikipedial.org/wiki/hisulated-gate_bipolar_transistor





	IGBT
	IGBTs have been the preferred device under these conditions:
\bigcirc	- Low duty cycle
	– Low frequency (<20kHz)
	– Narrow or small line or load variations
	 High-voltage applications (>1000V)
	 Operation at high junction temperature is allowed (>100°C)
	- >5kW output power
	MOSFETs are preferred in:
	 High frequency applications (>200kHz)
	- Wide line or load variations
	- Long duty cycles
	 Low-voltage applications (<250V)
\bigcirc	– < 500W output power
	http://www.irf.dom.technicst.afo/whitegaper/chogsewisely.gdf

